

CLAIMS

Claim 1-32 (cancelled).

Claim 33 (Previously Presented): An asphalt surface repair apparatus comprising:

a single vehicle road repair system having a front and a rear portion, that includes on the vehicle:

- a heating gas source;

- at least one heater carried by the vehicle such that the at least one heater being movable to a lowered horizontally disposed position that is substantially approximate to a surface to be repaired;

- a hot new asphalt source;

- a rejuvenating liquid source;

- a rejuvenating liquid dispenser; and

- a sensor for sensing the distance between the at least one heater and the surface to be repaired so that the heating can be controlled by the proximity to the surface to be repaired,

wherein the at least one heater is capable of heating to a temperature upon being turned on in less than about five seconds, cooling to an ambient temperature upon being turned off in less than about five seconds, or a combination of both.

Claim 34 (Previously Presented): The apparatus of claim 33, wherein the at least one heater is mounted to the rear portion of the vehicle for pivotal articulation relative to an adjoining structure of the vehicle for moving the at least one heater towards and away from the surface to be repaired.

Claim 35 (Previously Presented): The apparatus of claim 33, wherein the at least one heater includes a heater blanket.

Claim 36 (Previously Presented): The apparatus of claim 35, wherein the heater blanket is made of an electrical resistance steel that includes chromium and aluminum.

Claims 37-39 (Canceled):

Claim 40 (Previously Presented): The apparatus of claim 33, further comprising:
a controller for controlling an on/off operation of the at least one heater; and
wherein the controller turns on the at least one heater when the sensor senses the at least one heater is approximate to the surface to be repaired; and
wherein the controller turns off the at least one heater when the sensor senses the at least one heater is not approximate to the surface to be repaired.

Claim 41 (Previously Presented): The apparatus of claim 33, further comprising a storage compartment for storing tools and equipment, a compaction roller, or both.

Claims 42-52 (Canceled):

Claim 53 (Previously Presented): The apparatus of claim 33, wherein the at least one heater includes a control system located thereon for independent turning on and turning off of the at least one heater.

Claim 54 (Previously Presented): The apparatus of claim 33, wherein the at least one heater is configured to heat the surface to be repaired having a depth less than about 100mm.

Claim 55 (Previously Presented): The apparatus of claim 33, wherein the at least one heater is configured to heat the surface to be repaired having a depth less than about 100mm, to heat the surface to be repaired to a temperature less than about 200°C, or both.

Claims 56-58 (Canceled):